

FIG. 1

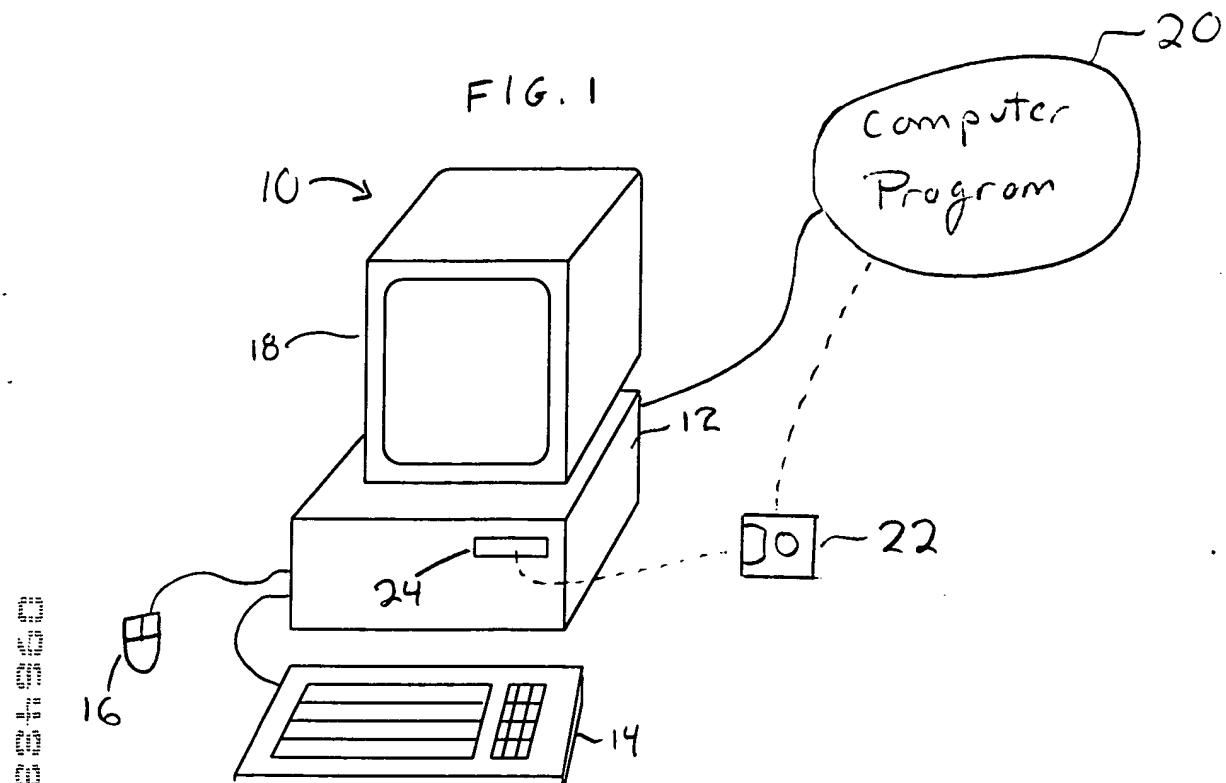


FIG. 2

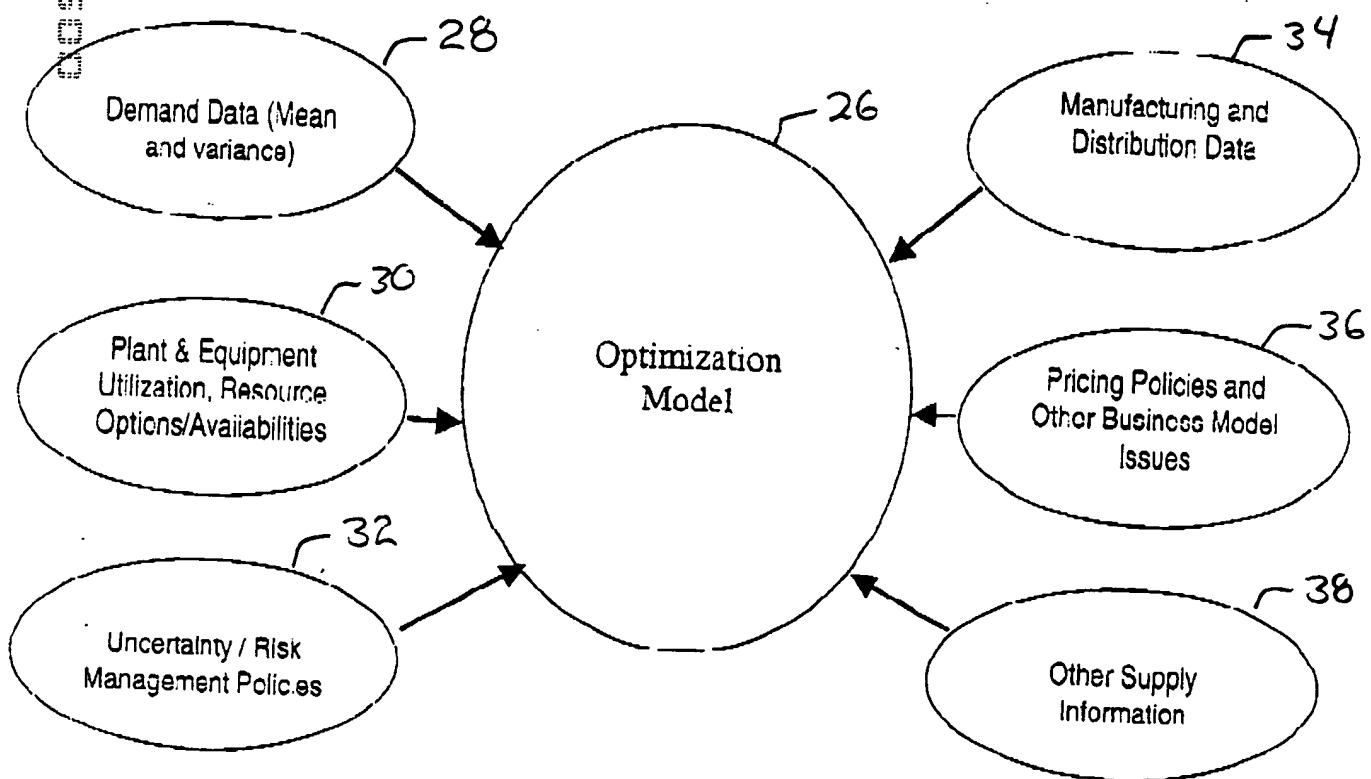


FIG. 3

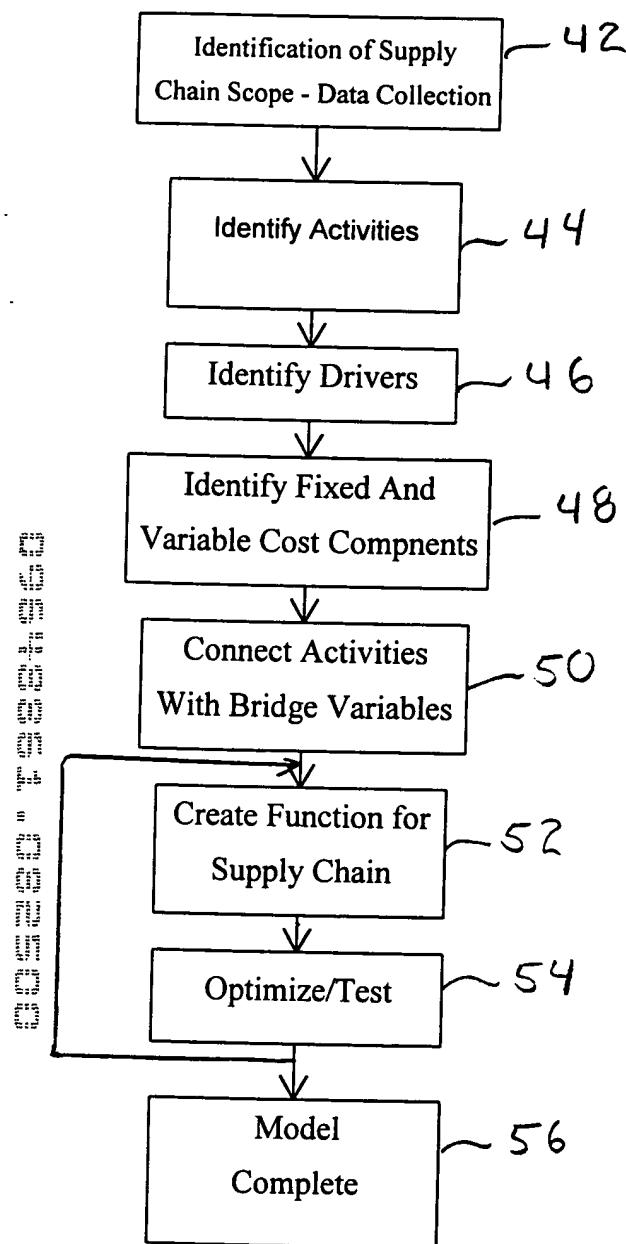


FIG. 4

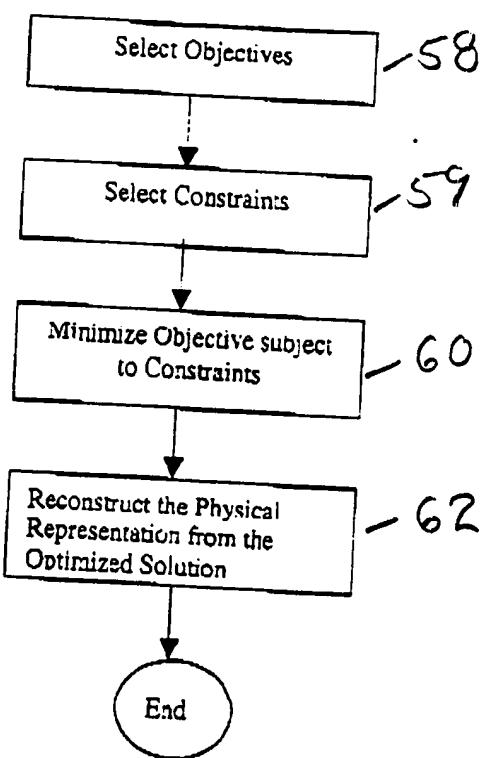


FIG. 5

## What-If Inputs

- Freight costs
- Lead Times
- Holding Costs per type of product

• Store Demand Data:  
*Historical, Seasonality, Volatility*

Existing Resources:  
*Number of Suppliers, Number of DCs, Number of Stores, Number of Trucks (assuming infinite)*

Constraints: product freshness, warehouse space (assuming infinite), truck capacity

## Optimal Outputs

- Order placement frequency
- Outbound delivery frequency
- Produce
- Other Items

## Optimal Inventory Levels

- At DC Level
- At Stores

## DC-Store Assignments:

*What DC should serve which store co-ops?*

Model 26  
Objective:

Minimize Total  
System Cost